

## Refine Search

10/822,398

### Search Results -

Term	Documents
(19 AND 18 AND 21 AND 29 AND 20).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	5
(L29 AND L21 AND L20 AND L19 AND L18).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	5

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
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 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L30





### Search History

DATE: Monday, September 17, 2007    Purge Queries    Printable Copy    Create Case

<u>Set</u> <u>Name</u> <u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
L30   L29 and L21 and L20 and L19 and L18	5	L30
L29   L16 and L17	8515	L29
L28   L27 and L21 and L20 and L19 and L18	5	L28
L27   L16 and L18	647	L27
L26   L25 and L21 and L20 and L19 and L18	4	L26
L25   L23 and homogeneous	8278	L25
L24   L23 and homogegeous	0	L24
L23   L22 and L17	40171	L23
L22   (coil or resonator or receiver or teansmitter or tranceiver)	2495662	L22
L21   (radiofrequency or (radio adj frequency) and asymmetr\$3) and L17	3701	L21

<u>L20</u>	L17 and (inducti\$5 or capaci\$5)	37473	<u>L20</u>
<u>L19</u>	L17 and (cylindrical near surface)	1329	<u>L19</u>
<u>L18</u>	L17 and ((complex near current) or (real and Imaginary))	1901	<u>L18</u>
<u>L17</u>	(magnetic adj resonance) or nmr or mri	260339	<u>L17</u>
<u>L16</u>	(324/300  324/301  324/302  324/303  324/304  324/305  324/306  324/307  324/308  324/309  324/310  324/311  324/312  324/313  324/314  324/315  324/316  324/317  324/318  324/319  324/320  324/321  324/322 or 407/407 or 324/299  324/301).ccls.	9802	<u>L16</u>
<u>L15</u>	L14 and L6 and L5 and L4 and L3	5	<u>L15</u>
<u>L14</u>	L1 and L2	8515	<u>L14</u>
<u>L13</u>	L12 and L6 and L5 and L4 and L3	5	<u>L13</u>
<u>L12</u>	L1 and L3	647	<u>L12</u>
<u>L11</u>	L10 and L6 and L5 and L4 and L3	4	<u>L11</u>
<u>L10</u>	L8 and homogeneous	8278	<u>L10</u>
<u>L9</u>	L8 and homogegeous	0	<u>L9</u>
<u>L8</u>	L7 and L2	40171	<u>L8</u>
<u>L7</u>	(coil or resonator or receiver or teansmitter or tranceiver)	2495662	<u>L7</u>
<u>L6</u>	(radiofrequency or (radio adj frequency) and asymmetr\$3) and L2	3701	<u>L6</u>
<u>L5</u>	L2 and (inducti\$5 or capaci\$5)	37473	<u>L5</u>
<u>L4</u>	L2 and (cylindrical near surface)	1329	<u>L4</u>
<u>L3</u>	L2 and ((complex near current) or (real and Imaginary))	1901	<u>L3</u>
<u>L2</u>	(magnetic adj resonance) or nmr or mri	260339	<u>L2</u>
<u>L1</u>	(324/300-322 or 600/407/445 or 324/299,301).ccls.	9802	<u>L1</u>

END OF SEARCH HISTORY

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**Search Results - Record(s) 1 through 4 of 4 returned.**

☐ 1. Document ID: US 20020057087 A1      Relevance Rank: 99

L11: Entry 3 of 4

File: PGPB

May 16, 2002

PGPUB-DOCUMENT-NUMBER: 20020057087  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020057087 A1

TITLE: Asymmetric radio frequency coils for magnetic resonance

PUBLICATION-DATE: May 16, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Crozier, Stuart	Wilston		AU
Lawrence, Ben	St. Lucia		AU
Yau, Desmond	Toowong		AU
Luescher, Kurt	Indooroopilly		AU
Roffman, Wolfgang Udo	Mount Gravatt East		AU
Doddrell, David Michael	Westlake		AU

APPL-NO: 09/947178      [PALM]  
DATE FILED: September 5, 2001

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
AU	PR0059	2000AU-PR0059	September 11, 2000

INT-CL-PUBLISHED: [07] G01V 3/00

INT-CL-CURRENT:

TYPE IPC      DATE  
CIPP G01 R 33/34      20060101

US-CL-PUBLISHED: 324/318; 324/309, 324/307, 324/322

US-CL-CURRENT: 324/318; 324/307, 324/309, 324/322

REPRESENTATIVE-FIGURES: 14 16

ABSTRACT:

Asymmetric radio frequency (RF) coils for magnetic resonance applications are provided. Also provided are time harmonic methods for designing such coils as well as symmetric coils. In addition, methods for converting complex current density functions into discrete capacitive and inductive elements are provided.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Ds
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2. Document ID: US 20040189303 A1      Relevance Rank: 99

L11: Entry 2 of 4

File: PGPB

Sep 30, 2004

PGPUB-DOCUMENT-NUMBER: 20040189303

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040189303 A1

TITLE: Asymmetric radio frequency coils for magnetic resonance

PUBLICATION-DATE: September 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Crozier, Stuart	Wilston		AU
Lawrence, Ben	St. Lucia		AU
Yau, Desmond	Toowong		AU
Luescher, Kurt	Indooroopilly		AU
Roffman, Wolfgang Udo	Mount Gravatt East		AU
Doddrell, David Michael	Westlake		AU

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	COUNTRY	TYPE CODE
NMR Holdings No. 2 Pty Limited	Milton		AU	03

APPL-NO: 10/822398 [PALM]

DATE FILED: April 12, 2004

RELATED-US-APPL-DATA:

Application 10/822398 is a division-of US application 09/947178, filed September 5, 2001, US Patent No. 6720768

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
AU	PR0059	2000AU-PR0059	September 11, 2000

INT-CL-PUBLISHED: [07] G01V 3/00

INT-CL-CURRENT:

TYPE IPC	DATE
CIPP G01 R 33/34	20060101

US-CL-PUBLISHED: 324/318

US-CL-CURRENT: 324/318

REPRESENTATIVE-FIGURES: 16

## ABSTRACT:

Asymmetric radio frequency (RF) coils for magnetic resonance applications are provided. Also provided are time harmonic methods for designing such coils as well as symmetric coils. In addition, methods for converting complex current density functions into discrete capacitive and inductive elements are provided.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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□ 3. Document ID: US 6720768 B2      Relevance Rank: 99

L11: Entry 4 of 4

File: USPT

Apr 13, 2004

US-PAT-NO: 6720768

DOCUMENT-IDENTIFIER: US 6720768 B2

TITLE: Asymmetric radio frequency coils for magnetic resonance

DATE-ISSUED: April 13, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Crozier; Stuart	Wilston			AU
Lawrence; Ben	St. Lucia			AU
Yau; Desmond	Toowong			AU
Luescher; Kurt	Indooroopilly			AU
Roffman; Wolfgang Udo	Mount Gravatt East			AU
Doddrell; David Michael	Westlake			AU

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
NMR Holdings No. 2 Pty Limited	Woolloomooloo			AU		03

APPL-NO: 09/947178    [PALM]

DATE FILED: September 5, 2001

INT-CL-ISSUED: [07] G01V 3/00

## INT-CL-CURRENT:

TYPE	IPC	DATE
CIPP	G01 R 33/34	20060101

US-CL-ISSUED: 324/318; 324/309

US-CL-CURRENT: 324/318; 324/309

FIELD-OF-CLASSIFICATION-SEARCH: 324/318, 324/319, 324/322, 324/309, 324/307, 324/312, 600/410

See application file for complete search history.

PRIOR-ART-DISCLOSED:

#### U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4694255</u>	September 1987	Hayes	
<u>4703274</u>	October 1987	Kaufman et al.	
<u>5309104</u>	May 1994	Frederick	
<u>5515855</u>	May 1996	Meyer	
<u>5542424</u>	August 1996	Hornak et al.	
<u>5619996</u>	April 1997	Beresten	
<u>5999000</u>	December 1999	Srinivasan	324/318
<u>6140900</u>	October 2000	Crozier et al.	
<u>6377148</u>	April 2002	Forbes et al.	

#### OTHER PUBLICATIONS

Fujita et al., "A hybrid inverse approach applied to the design of lumped-element RF coils," IEEE Trans. Biomedical Engineering, 46:353-361, Mar. 1999.  
 Hayes et. al., "An efficient, highly homogeneous radiofrequency coil for whole-body NMR imaging at 1.5T," The Journal of Magnetic Resonance, 63:622-628, 1985.  
 Meyer et al., "A 3.times.3 Mesh Two-Dimensional Ladder Network Resonator for MRI of the Human Head," The Journal of Magnetic Resonance, 107, 19-24, 1995.

ART-UNIT: 2862

PRIMARY-EXAMINER: Gutierrez; Diego

ASSISTANT-EXAMINER: Shrivastav; Brij B.

ATTY-AGENT-FIRM: Klee; Maurice M.

#### ABSTRACT:

Asymmetric radio frequency (RF) coils for magnetic resonance applications are provided. Also provided are time harmonic methods for designing such coils as well as symmetric coils. In addition, methods for converting complex current density functions into discrete capacitive and inductive elements are provided.

13 Claims, 19 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw D

4. Document ID: US 20060085049 A1 Relevance Rank: 74

L11: Entry 1 of 4

File: PGPB

Apr 20, 2006

PGPUB-DOCUMENT-NUMBER: 20060085049  
PGPUB-FILING-TYPE:  
DOCUMENT-IDENTIFIER: US 20060085049 A1

TITLE: Active electrode, bio-impedance based, tissue discrimination system and methods of use

PUBLICATION-DATE: April 20, 2006

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Cory; Phillip C.	Bozeman	MT	US
Cory; Joan M.	Bozeman	MT	US
Schulz; Waldean A.	Boulder	CO	US
Kramer; Daniel A.	Dublin	OH	US
Ray; Paul L.	Boulder	CO	US

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	COUNTRY	TYPE CODE
Nervonix, Inc.	Bozeman	MT	US	02

APPL-NO: 11/252568 [PALM]  
DATE FILED: October 19, 2005

## RELATED-US-APPL-DATA:

us-provisional-application US 60619921 20041020

## INT-CL-PUBLISHED:

TYPE	IPC	DATE	IPC-OLD
IPCP	A61N1/08	20060101	A61N001/08
IPCS	A61B5/05	20060101	A61B005/05

## INT-CL-CURRENT:

TYPE	IPC	DATE
CIPS	A61 B 5/05	20060101
CIPP	A61 N 1/08	20060101

US-CL-PUBLISHED: 607/048; 600/547

US-CL-CURRENT: 607/48; 600/547

## ABSTRACT:

Systems and methods for discriminating and locating tissues within a body involve applying a waveform signal to tissue between two electrodes and measuring the electrical characteristics of the signal transmitted through the tissue. At least one of the electrodes is constrained in area so that localized electrical

characteristics of the tissue are measured. Such localized electrical characteristics are determined over a portion of a body of the subject by using an array of electrodes or electrodes that can be moved over the body. A controller may implement the process and perform calculations on the measured data to identify tissue types and locations within the measured area, and to present results in graphical form. Results may be combined with other tissue imaging technologies and with image-guided systems.

## RELATED APPLICATIONS

[0001] This specification claims the benefit of and priority to U.S. Provisional Patent Application No. 60/619,921 filed Oct. 20, 2004, the entire contents of which are hereby incorporated by reference. This application is also related to U.S. Application No. (to be issued) entitled "Algorithms for an Active Electrode, Bioimpedance-based Tissue Discrimination System" filed concurrently herewith, the entire contents of which are hereby incorporated by reference. This application is also related to U.S. application Ser. Nos. 09/989,206 filed Nov. 21, 2001; Ser. No. 10/170,194 filed on Jun. 13, 2002; Ser. No. 10/772,397 filed Feb. 6, 2004; and Ser. No. 10/853,590 filed May 25, 2004; the contents of each of which are herein incorporated by reference in their entireties.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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Term	Documents
(4 AND 3 AND 6 AND 10 AND 5) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4
(L10 AND L6 AND L5 AND L4 AND L3 ) .PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4

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